

=> FILE REG

FILE 'REGISTRY' ENTERED AT 12:55:47 ON 21 AUG 2008
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=> D HIS

FILE 'LREGISTRY' ENTERED AT 12:47:17 ON 21 AUG 2008
 E TRIPHENYLMETHANE/CN

L1 1 S E3
 L2 STR 519-73-3

FILE 'REGISTRY' ENTERED AT 12:48:43 ON 21 AUG 2008

L3 SCR 2043
 L4 3 S L2 AND L3
 L5 STR L2
 L6 1 S L5 AND L3
 L7 80 S L5 AND L3 FUL
 SAV L7 GAR389/A

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L8 0 S L7

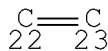
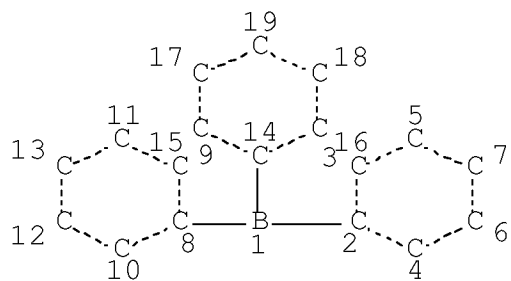
FILE 'ZCA' ENTERED AT 12:54:02 ON 21 AUG 2008

L9 42 S L7
 L10 2 S 1840-2004/PY,PRY,AY AND L9

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=> D L7 QUE STAT

L3 SCR 2043
 L5 STR



NODE ATTRIBUTES:

CONNECT IS E3 RC AT 1
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 21

STEREO ATTRIBUTES: NONE

L7 80 SEA FILE=REGISTRY SSS FUL L5 AND L3

100.0% PROCESSED 1078 ITERATIONS
SEARCH TIME: 00.00.01

80 ANSWERS

=> FILE ZCA

FILE 'ZCA' ENTERED AT 12:56:02 ON 21 AUG 2008
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=> D L10 1-2 ALL HITSTR

L10 ANSWER 1 OF 2 ZCA COPYRIGHT 2008 ACS on STN
AN 143:98162 ZCA Full-text
ED Entered STN: 28 Jul 2005
TI Boron-containing polymer compound and organic light emitting device
using the same
IN Kato, Tsuyoshi; Kondo, Kunio
PA Showa Denko K.K., Japan
SO PCT Int. Appl., 78 pp.
CODEN: PIXXD2
DT Patent
LA English
IC ICM C08F030-06
ICS C08F230-06; C08F008-00; H01L051-30
CC 37-3 (Plastics Manufacture and Processing)
Section cross-reference(s): 73
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI WO 2005061562 A1 20050707 WO 2004-JP18859 200412
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GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR,
KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX,
MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE,
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VN, YU, ZA, ZM, ZW

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EP 1697431 A1 20060906 EP 2004-807217 200412
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US 20070167588 A1 20070719 US 2006-583389 200606
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KR 2007001090 A 20070103 KR 2006-713402 200607
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PRAI JP 2003-422040 A 20031219 <--
US 2003-532919P P 20031230 <--
WO 2004-JP18859 W 20041210 <--

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2005061562	ICM	C08F030-06
	ICS	C08F230-06; C08F008-00; H01L051-30

	IPCI	C08F0030-06 [ICM,7]; C08F0030-00 [ICM,7,C*]; C08F0230-06 [ICS,7]; C08F0230-00 [ICS,7,C*]; C08F0008-00 [ICS,7]; H01L0051-30 [ICS,7]; H01L0051-05 [ICS,7,C*]
	IPCR	C08F0008-00 [I,C*]; C08F0008-00 [I,A]; C08F0008-42 [I,A]; C08F0030-00 [I,C*]; C08F0030-06 [I,A]; C08F0230-00 [I,C*]; C08F0230-06 [I,A]; H01L0051-05 [I,C*]; H01L0051-30 [I,A]; H01L0051-50 [N,C*]; H01L0051-50 [N,A]
	ECLA	H01L051/00M12D; C08F008/42; C08F030/06; H01L051/00M2D; H01L051/00M12F2; T01L; T01L; T01L; T01L
JP 2005200638	IPCI	C08F0030-06 [ICM,7]; C08F0030-00 [ICM,7,C*]; C09K0011-06 [ICS,7]; H05B0033-14 [ICS,7]; C07F0005-02 [ICS,7]; C07F0005-00 [ICS,7,C*]
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EP 1697431	IPCI	C08F0030-06 [ICM,7]; C08F0030-00 [ICM,7,C*]; C08F0230-06 [ICS,7]; C08F0230-00 [ICS,7,C*]; C08F0008-00 [ICS,7]; H01L0051-30 [ICS,7]; H01L0051-05 [ICS,7,C*]
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	IPCR	C08F0030-00 [I,C]; C08F0030-06 [I,A]
US 20070167588	IPCI	C08F0030-06 [I,A]; C08F0030-00 [I,C*]; H01L0051-54 [I,A]; H01L0051-50 [I,C*]; C09K0011-06 [I,A]
	NCL	526/239.000; 252/301.160; 252/301.350; 257/040.000; 257/E51.033; 257/E51.036; 257/E51.044; 313/504.000; 428/690.000; 428/917.000; 526/241.000
KR 2007001090	IPCI	C08F0030-06 [I,A]; C08F0030-00 [I,C*]; C08F0230-06 [I,A]; C08F0230-00 [I,C*]; C08F0008-42 [I,A]; C08F0008-00 [I,C*]; H01L0051-30 [I,A]; H01L0051-05 [I,C*]
AB	The present invention provides a polymer material showing high luminous efficiency at a low voltage and suitable for increasing the	

emission area and for the mass prodn., and an org. light emitting device using the same. The present invention relates to a polymer compd. comprising a boron-contg. monomer unit represented by [CR16(XA)CH2]: where A represents a tri-Ph boron group in which the Ph group may be substituted, R16 represents a hydrogen atom or an alkyl group having 1 to 12 carbon atoms, X represents a single bond, -O-, -S-, -SO-, -SO2- or a divalent hydrocarbon group having 1 to 20 carbon atoms which may have a hetero atom, a light-emitting polymer compd. comprising the boron-contg. monomer unit and a light-emitting monomer unit, a light-emitting compn. comprising the boron-contg. monomer unit and a light-emitting low-mol. compd. or light-emitting polymer compd., and org. light-emitting device using the light-emitting polymer compd. or the light-emitting compn.

ST boron polymer org light emitting device

IT Electroluminescent devices

Phosphorescent substances

(boron-contg. polymer compd. and org. light emitting device using the same)

IT 6267-34-1P, 4-Bromo-3,5-dimethylanisole 18120-63-3P 105465-14-3P
 149228-92-2P 162247-15-6P 856695-21-1P 856695-22-2P
 856695-23-3P 856695-24-4P 856695-25-5P 856695-26-6P
 856695-27-7P 856695-28-8P 856695-29-9P 856695-30-2P
 856695-31-3P 856695-32-4P 856695-33-5P 856695-34-6P
 856695-35-7P 856695-36-8P 856695-37-9P 856695-38-0P
 856695-39-1P 856695-40-4P

(boron-contg. polymer compd. and org. light emitting device using the same)

IT 856695-41-5P 856695-42-6P 856695-43-7P
 856695-44-8P 856695-45-9P 856695-46-0P
 856695-47-1P 856695-48-2P 856695-49-3P
 856695-50-6P 856695-51-7P 856695-52-8P
 856695-53-9P 856695-55-1P 856695-56-2P
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(boron-contg. polymer compd. and org. light emitting device using the same)

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 109-63-7, Borontrifluoride ether complex 119-93-7 436-59-9,
 Dimesitylboronfluoride 625-95-6, 3-Iodotoluene 1493-13-6,
 Trifluoromethanesulfonic acid 2156-04-9 5122-94-1 7463-51-6,
 4-Bromo-3,5-dimethylphenol 7486-35-3, Tributyl vinyl tin
 18162-48-6, tert-Butyldimethylchlorosilane 37181-39-8,
 Trifluoromethane sulfonate

(boron-contg. polymer compd. and org. light emitting device using

the same)

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE

- (1) Anon; PATENT ABSTRACTS OF JAPAN 2001, V2000(13)
- (2) Anon; PATENT ABSTRACTS OF JAPAN 2003, V2003(08)
- (3) Chisso Corporation; EP 1142895 A 2001 ZCA
- (4) Covion Organic Semiconductors Gmbh; EP 1217668 A 2002 ZCA
- (5) Hokko Chem Ind Co Ltd; JP 2000297118 A 2000 ZCA
- (6) Showa Denko Kk; JP 2003113246 A 2003 ZCA

IT 856695-41-5P 856695-42-6P 856695-43-7P
856695-44-8P 856695-45-9P 856695-46-0P
856695-47-1P 856695-48-2P 856695-49-3P
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(boron-contg. polymer compd. and org. light emitting device using
the same)

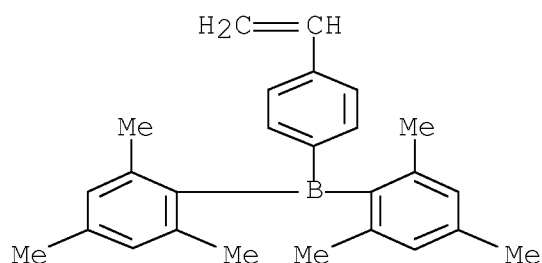
RN 856695-41-5 ZCA

CN Borane, (4-ethenylphenyl)bis(2,4,6-trimethylphenyl)-, homopolymer
(9CI) (CA INDEX NAME)

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CRN 856695-21-1

CMF C26 H29 B



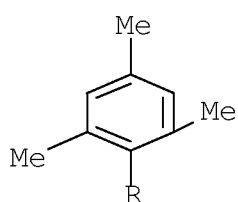
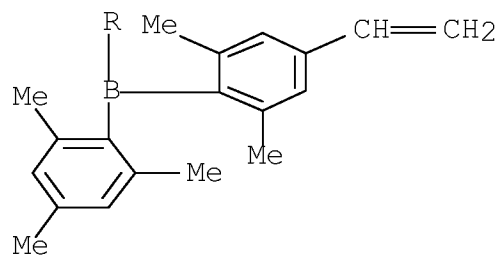
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CN Borane, (4-ethenyl-2,6-dimethylphenyl)bis(2,4,6-trimethylphenyl)-,
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CRN 856695-22-2

CMF C28 H33 B



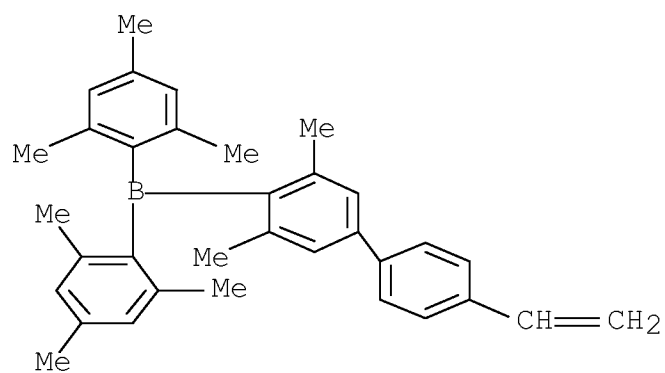
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CN Borane, (4'-ethenyl-3,5-dimethyl[1,1'-biphenyl]-4-yl)bis(2,4,6-trimethylphenyl)-, homopolymer (9CI) (CA INDEX NAME)

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CMF C34 H37 B



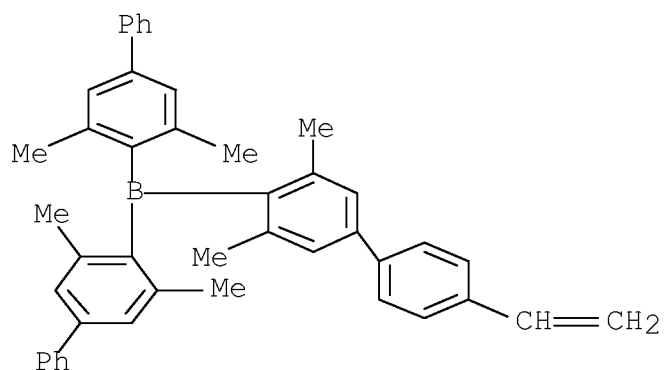
RN 856695-44-8 ZCA

CN Borane, bis(3,5-dimethyl[1,1'-biphenyl]-4-yl)(4'-ethenyl-3,5-dimethyl[1,1'-biphenyl]-4-yl)-, homopolymer (9CI) (CA INDEX NAME)

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CRN 856695-28-8

CMF C44 H41 B



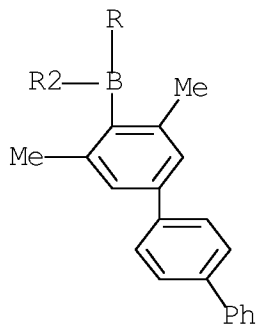
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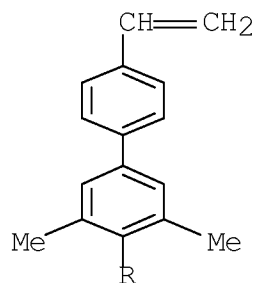
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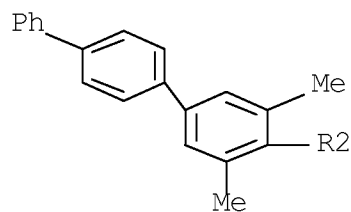
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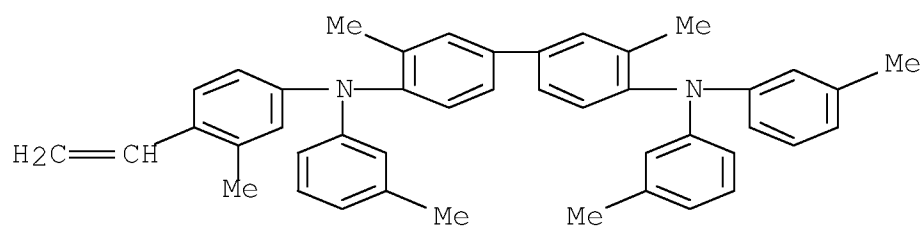
PAGE 3-A



RN 856695-46-0 ZCA
CN [1,1'-Biphenyl]-4,4'-diamine, N-(4-ethenyl-3-methylphenyl)-3,3'-
dimethyl-N,N',N'-tris(3-methylphenyl)-, polymer with
(4-ethenylphenyl)bis(2,4,6-trimethylphenyl)borane (9CI) (CA INDEX
NAME)

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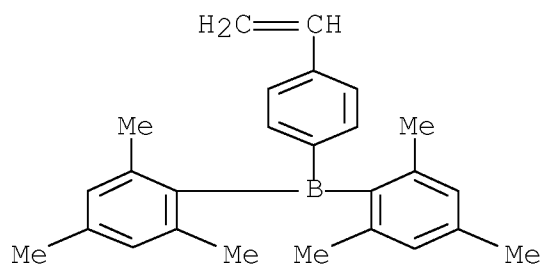
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CMF C26 H29 B



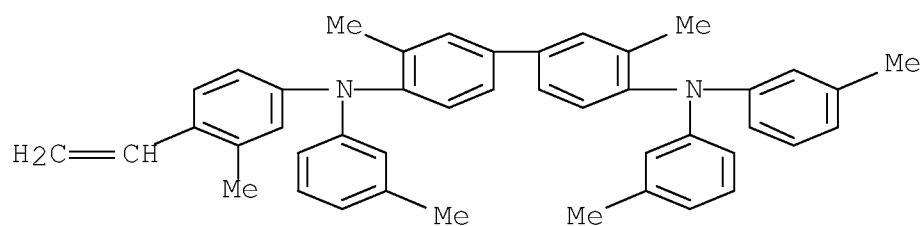
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CN [1,1'-Biphenyl]-4,4'-diamine, N-(4-ethenyl-3-methylphenyl)-3,3'-dimethyl-N,N',N'-tris(3-methylphenyl)-, polymer with (4-ethenyl-2,6-dimethylphenyl)bis(2,4,6-trimethylphenyl)borane (9CI)
(CA INDEX NAME)

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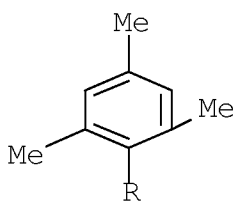
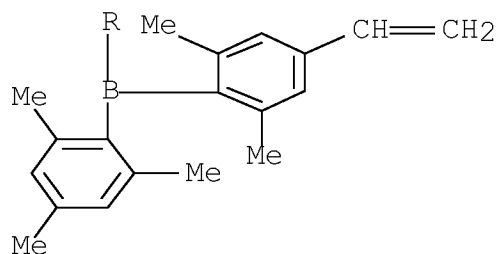
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CMF C28 H33 B



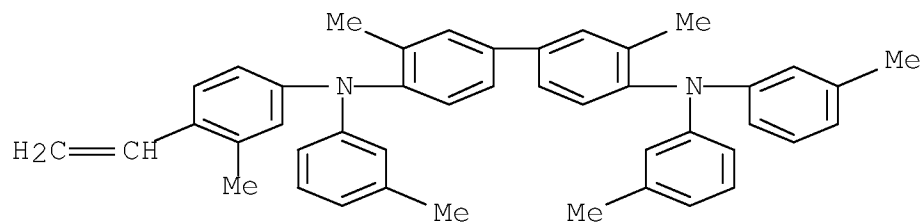
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CN [1,1'-Biphenyl]-4,4'-diamine, N-(4-ethenyl-3-methylphenyl)-3,3'-dimethyl-N,N',N'-tris(3-methylphenyl)-, polymer with (4'-ethenyl-3,5-dimethyl[1,1'-biphenyl]-4-yl)bis(2,4,6-trimethylphenyl)borane (9CI) (CA INDEX NAME)

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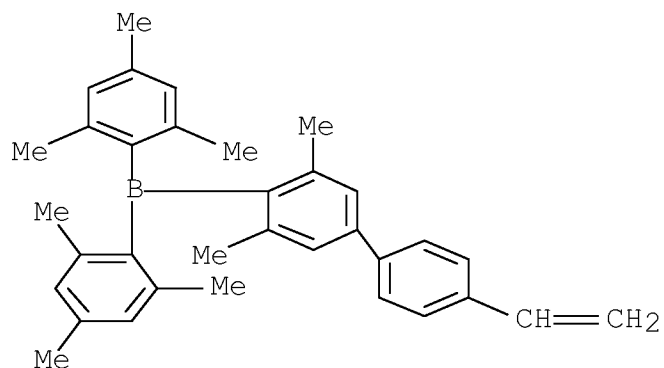
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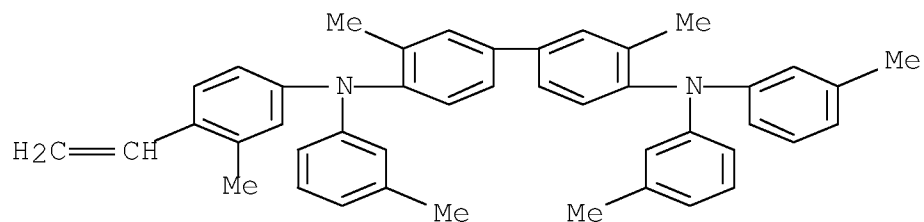
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CN [1,1'-Biphenyl]-4,4'-diamine, N-(4-ethenyl-3-methylphenyl)-3,3'-dimethyl-N,N',N'-tris(3-methylphenyl)-, polymer with bis(3,5-dimethyl[1,1'-biphenyl]-4-yl)(4'-ethenyl-3,5-dimethyl[1,1'-biphenyl]-4-yl)borane (CA INDEX NAME)

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CRN 856695-39-1

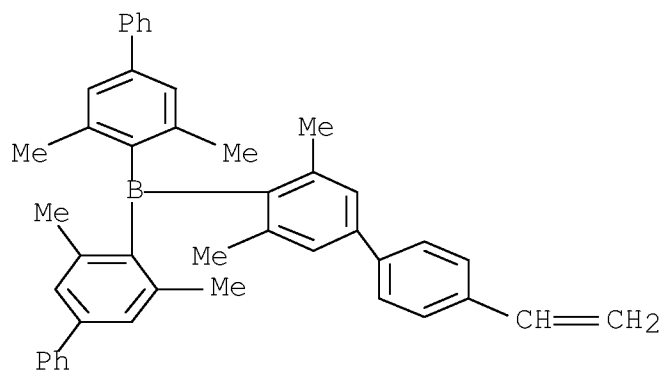
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CMF C44 H41 B



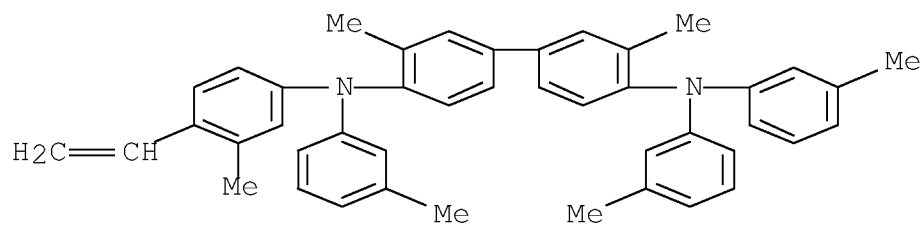
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CN [1,1'-Biphenyl]-4,4'-diamine, N-(4-ethenyl-3-methylphenyl)-3,3'-dimethyl-N,N',N'-tris(3-methylphenyl)-, polymer with bis(3,5-dimethyl[1,1':4',1''-terphenyl]-4-yl)(4'-ethenyl-3,5-dimethyl[1,1'-biphenyl]-4-yl)borane (9CI) (CA INDEX NAME)

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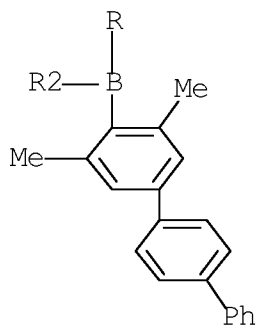


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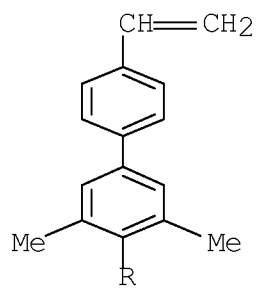
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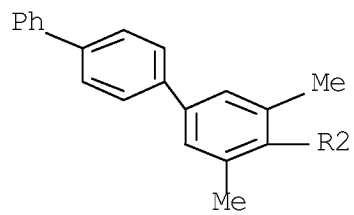
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PAGE 3-A



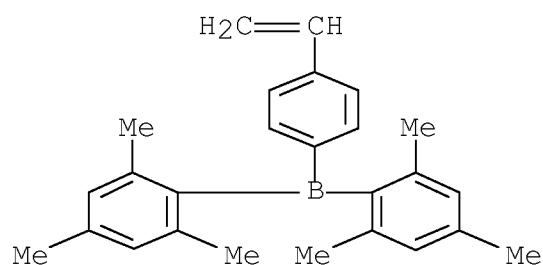
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CN Iridium, [6-(4-ethenylphenyl)-2,4-hexanedionato-
 $\kappa O, \kappa O'$]bis[2-(2-pyridinyl- κN)phenyl- κC]-,

polymer with (4-ethenylphenyl)bis(2,4,6-trimethylphenyl)borane (9CI)
(CA INDEX NAME)

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CRN 856695-21-1

CMF C26 H29 B

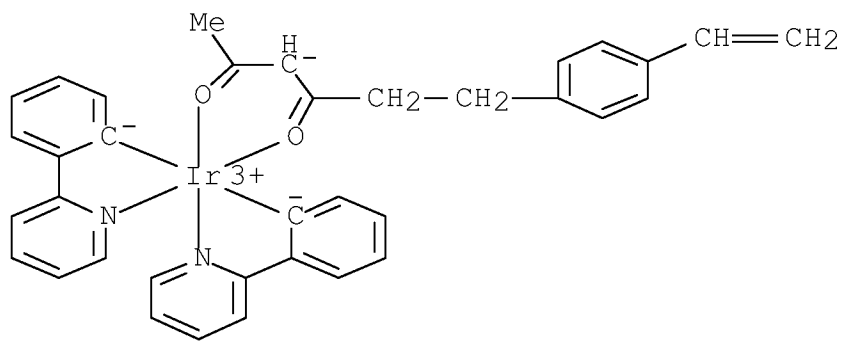


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CRN 481694-72-8

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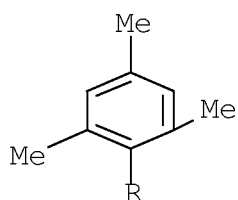
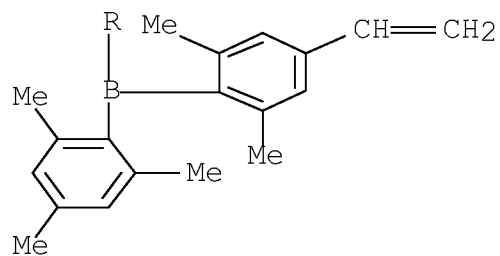
RN 856695-52-8 ZCA

CN Iridium, [6-(4-ethenylphenyl)-2,4-hexanedionato-
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polymer with (4-ethenyl-2,6-dimethylphenyl)bis(2,4,6-
trimethylphenyl)borane (9CI) (CA INDEX NAME)

CM 1

CRN 856695-22-2

CMF C28 H33 B

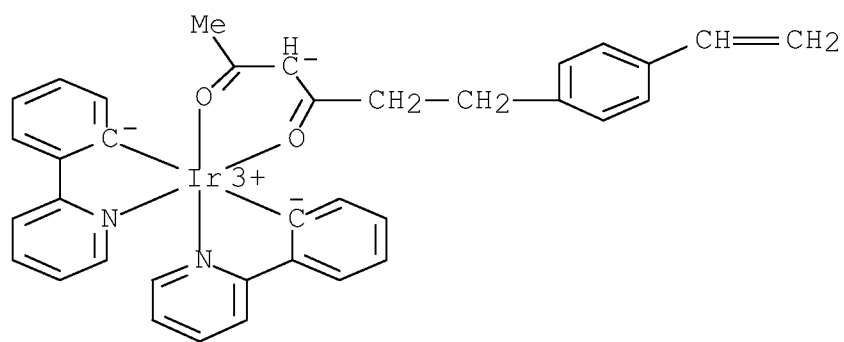


CM 2

CRN 481694-72-8

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CCI CCS



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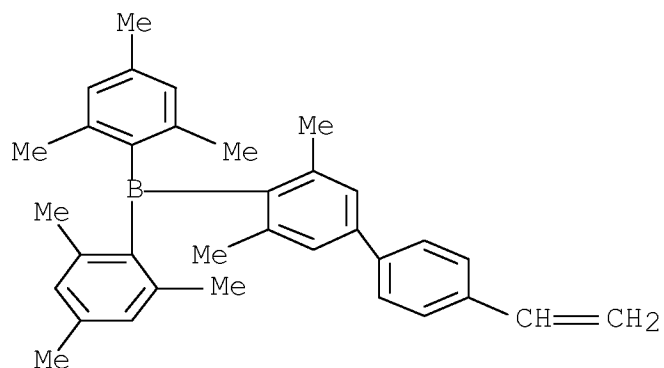
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polymer with (4'-ethenyl-3,5-dimethyl[1,1'-biphenyl]-4-yl)bis(2,4,6-

trimethylphenyl)borane (9CI) (CA INDEX NAME)

CM 1

CRN 856695-27-7

CMF C34 H37 B

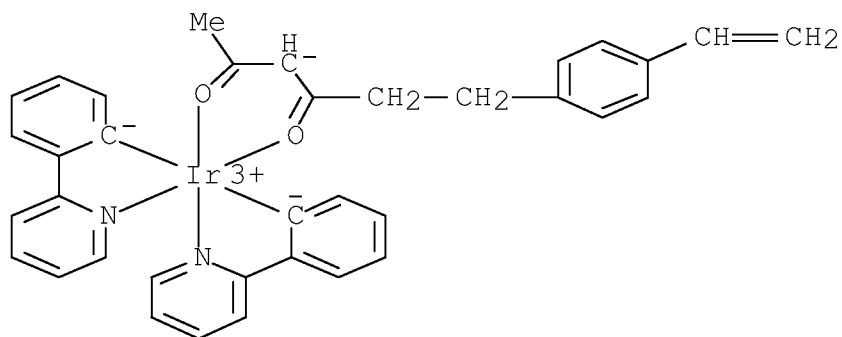


CM 2

CRN 481694-72-8

CMF C36 H31 Ir N2 O2

CCI CCS



RN 856695-55-1 ZCA

CN Iridium, [6-(4-ethenylphenyl)-2,4-hexanedionato-

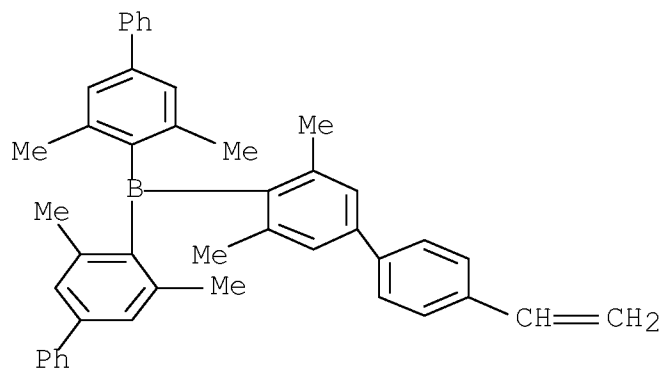
κO,κO']bis[2-(2-pyridinyl-κN)phenyl-κC]-,

polymer with bis(3,5-dimethyl[1,1'-biphenyl]-4-yl)(4'-ethenyl-3,5-dimethyl[1,1'-biphenyl]-4-yl)borane (9CI) (CA INDEX NAME)

CM 1

CRN 856695-28-8

CMF C44 H41 B

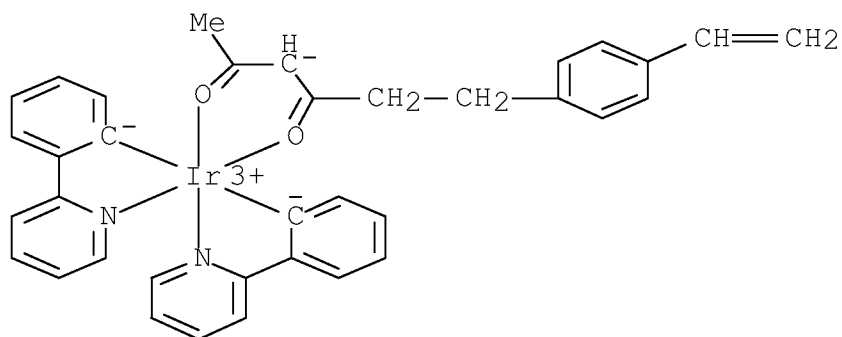


CM 2

CRN 481694-72-8

CMF C36 H31 Ir N2 O2

CCI CCS



RN 856695-56-2 ZCA

CN Iridium, [6-(4-ethenylphenyl)-2,4-hexanedionato-

$\kappa\text{O}, \kappa\text{O}'$]bis[2-(2-pyridinyl- κN)phenyl- κC]-,

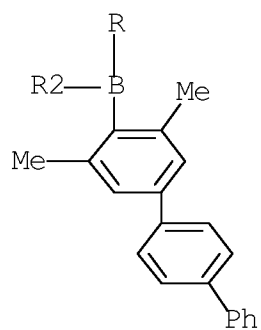
polymer with bis(3,5-dimethyl[1,1':4',1''-terphenyl]-4-yl)(4'-ethenyl-3,5-dimethyl[1,1'-biphenyl]-4-yl)borane (9CI) (CA INDEX NAME)

CM 1

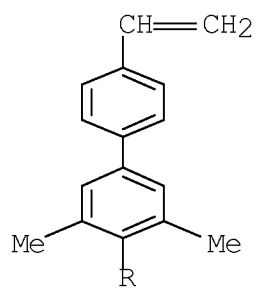
CRN 856695-35-7

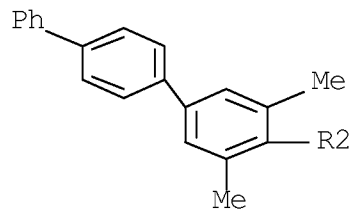
CMF C56 H49 B

PAGE 1-A



PAGE 2-A



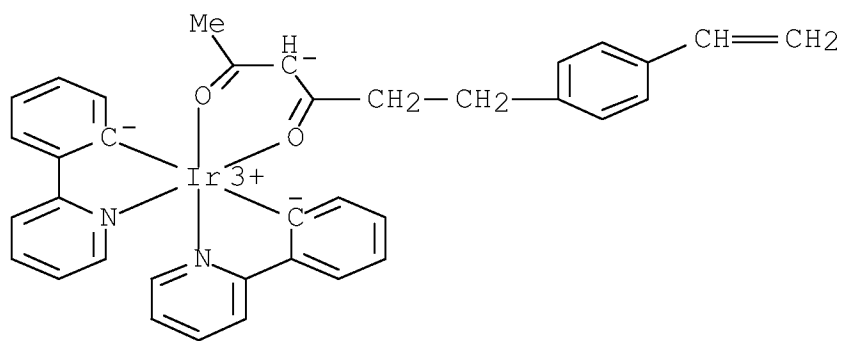


CM 2

CRN 481694-72-8

CMF C36 H31 Ir N2 O2

CCI CCS



RN 856695-58-4 ZCA

CN Iridium, [6-(4-ethenylphenyl)-2,4-hexanedionato-

$\kappa\text{O}, \kappa\text{O}'$]bis[2-(2-pyridinyl- κN)phenyl- κC]-,

polymer with N-(4-ethenyl-3-methylphenyl)-3,3'-dimethyl-N,N',N'-

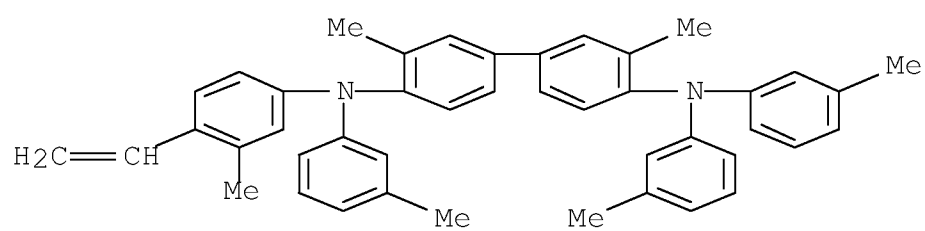
tris(3-methylphenyl)[1,1'-biphenyl]-4,4'-diamine and

(4-ethenylphenyl)bis(2,4,6-trimethylphenyl)borane (9CI) (CA INDEX NAME)

CM 1

CRN 856695-39-1

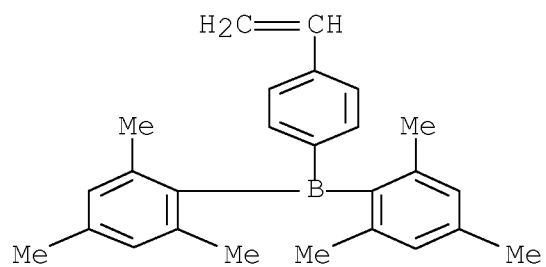
CMF C44 H42 N2



CM 2

CRN 856695-21-1

CMF C26 H29 B

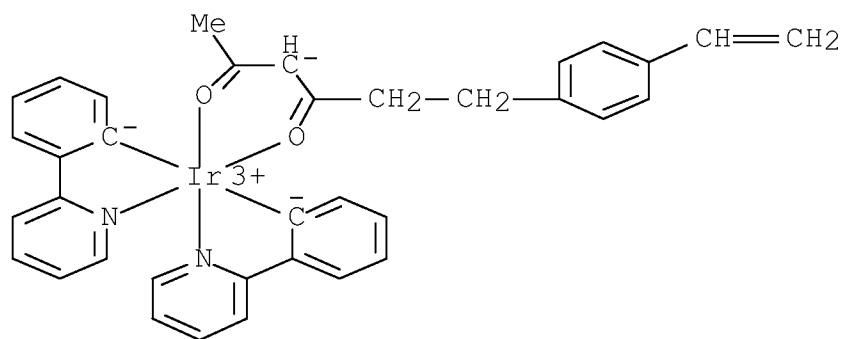


CM 3

CRN 481694-72-8

CMF C36 H31 Ir N2 O2

CCI CCS

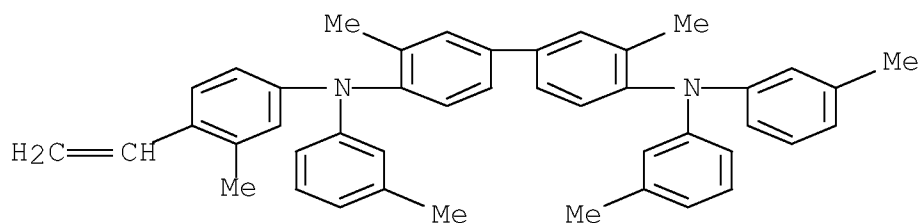


RN 856695-59-5 ZCA
 CN Iridium, [6-(4-ethenylphenyl)-2,4-hexanedionato-
 $\kappa\text{O}, \kappa\text{O}'$]bis[2-(2-pyridinyl- κN)phenyl- κC]-,
 polymer with (4-ethenyl-2,6-dimethylphenyl)bis(2,4,6-
 trimethylphenyl)borane and N-(4-ethenyl-3-methylphenyl)-3,3'-
 dimethyl-N,N',N'-tris(3-methylphenyl)[1,1'-biphenyl]-4,4'-diamine
 (9CI) (CA INDEX NAME)

CM 1

CRN 856695-39-1

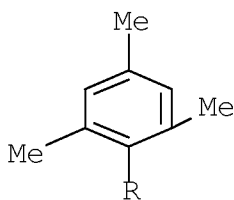
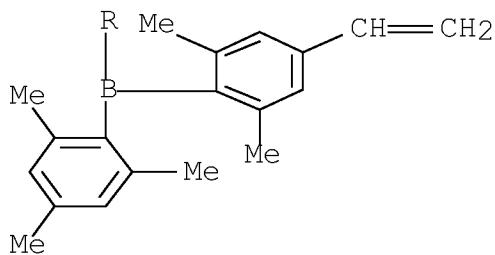
CMF C44 H42 N2



CM 2

CRN 856695-22-2

CMF C28 H33 B

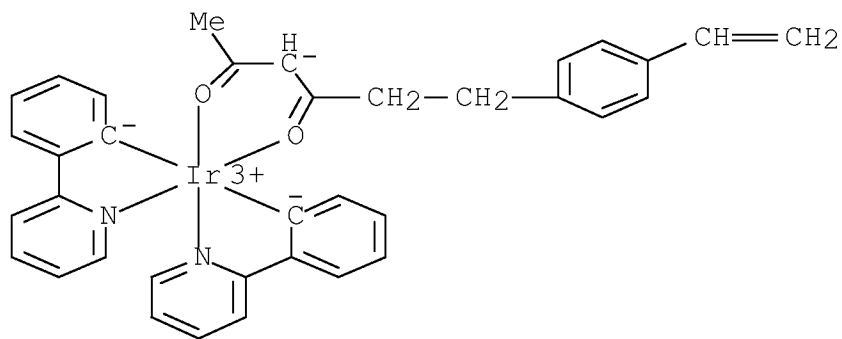


CM 3

CRN 481694-72-8

CMF C36 H31 Ir N2 O2

CCI CCS



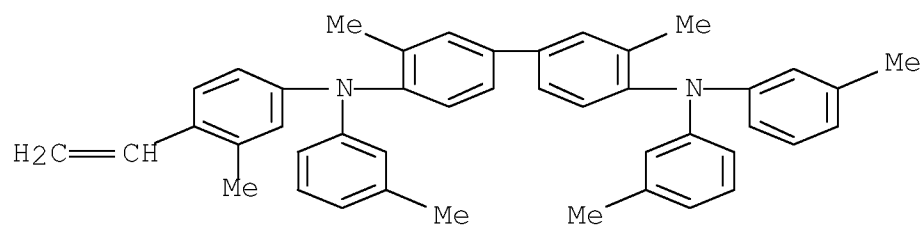
RN 856695-60-8 ZCA

CN Iridium, [6-(4-ethenylphenyl)-2,4-hexanedionato-
κO,κO']bis[2-(2-pyridinyl-κN)phenyl-κC]-,
polymer with (4'-ethenyl-3,5-dimethyl[1,1'-biphenyl]-4-yl)bis(2,4,6-
trimethylphenyl)borane and N-(4-ethenyl-3-methylphenyl)-3,3'-
dimethyl-N,N',N'-tris(3-methylphenyl)[1,1'-biphenyl]-4,4'-diamine
(9CI) (CA INDEX NAME)

CM 1

CRN 856695-39-1

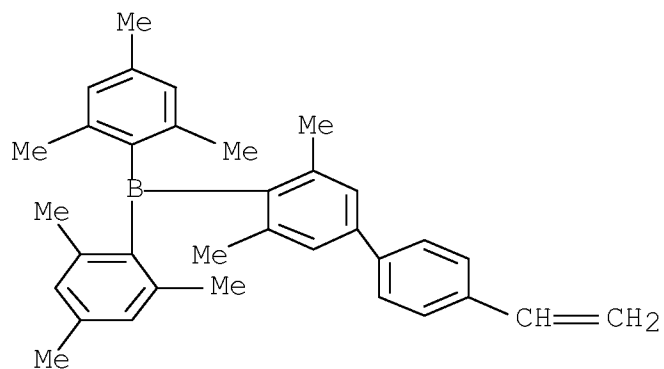
CMF C44 H42 N2



CM 2

CRN 856695-27-7

CMF C34 H37 B

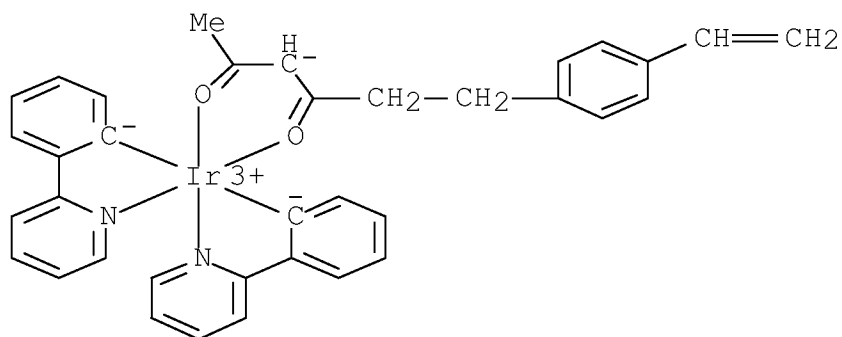


CM 3

CRN 481694-72-8

CMF C36 H31 Ir N2 O2

CCI CCS



RN 856695-61-9 ZCA

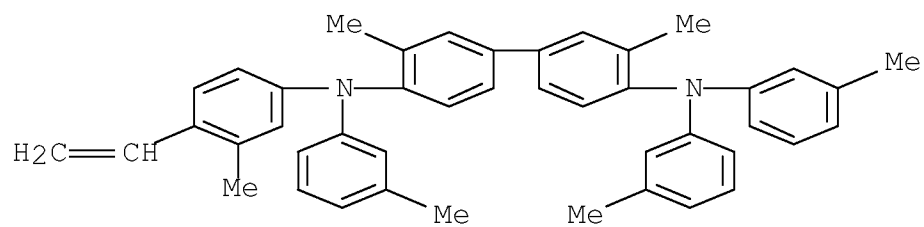
CN Iridium, [6-(4-ethenylphenyl)-2,4-hexanedionato- $\kappa\text{O},\kappa\text{O}'$]bis[2-(2-pyridinyl- κN)phenyl- κC]-, polymer with bis(3,5-dimethyl[1,1'-biphenyl]-4-yl)(4'-ethenyl-3,5-dimethyl[1,1'-biphenyl]-4-yl)borane and N-(4-ethenyl-3-methylphenyl)-3,3'-dimethyl-N,N',N'-tris(3-methylphenyl)[1,1'-biphenyl]-4,4'-

diamine (9CI) (CA INDEX NAME)

CM 1

CRN 856695-39-1

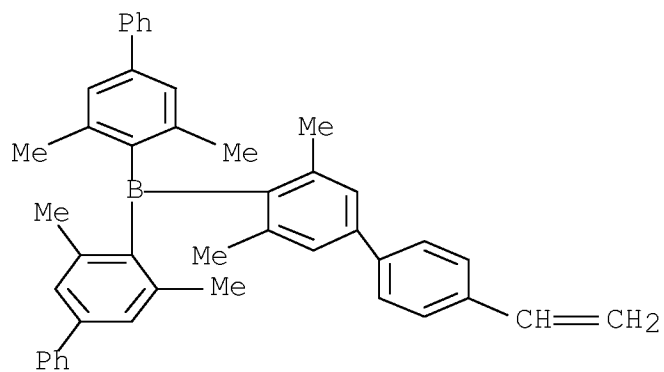
CMF C44 H42 N2



CM 2

CRN 856695-28-8

CMF C44 H41 B

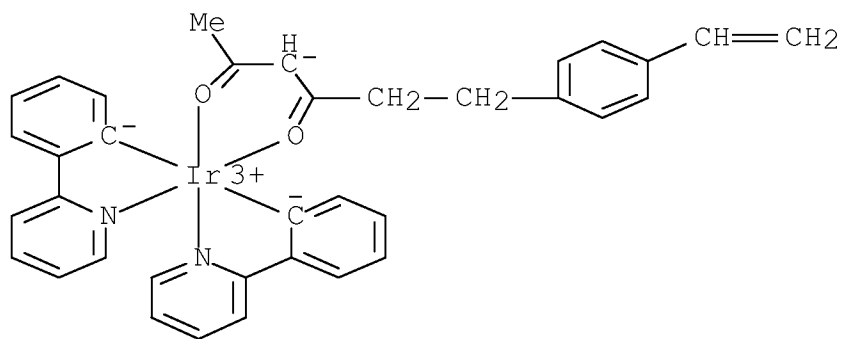


CM 3

CRN 481694-72-8

CMF C36 H31 Ir N2 O2

CCI CCS



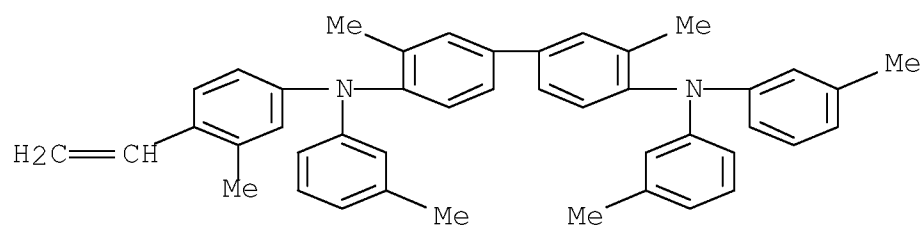
RN 856695-62-0 ZCA

CN Iridium, [6-(4-ethenylphenyl)-2,4-hexanedionato-
 $\kappa O, \kappa O'$]bis[2-(2-pyridinyl- κN)phenyl- κC]-,
 polymer with bis(3,5-dimethyl[1,1':4',1''-terphenyl]-4-yl)(4'-
 ethenyl-3,5-dimethyl[1,1'-biphenyl]-4-yl)borane and
 3,3'-dimethyl-N-(4-ethenyl-3-methylphenyl)-N,N',N'-tris(3-
 methylphenyl)[1,1'-biphenyl]-4,4'-diamine (9CI) (CA INDEX NAME)

CM 1

CRN 856695-39-1

CMF C44 H42 N2

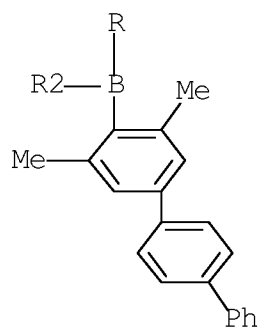


CM 2

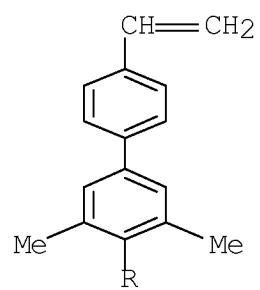
CRN 856695-35-7

CMF C56 H49 B

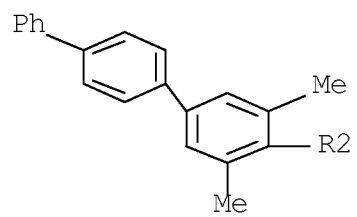
PAGE 1-A



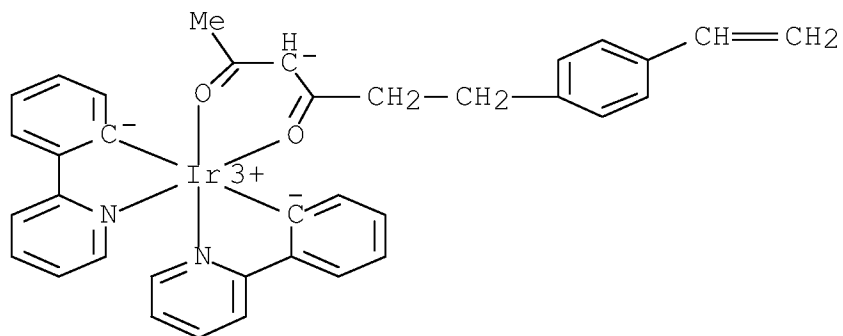
PAGE 2-A



PAGE 3-A



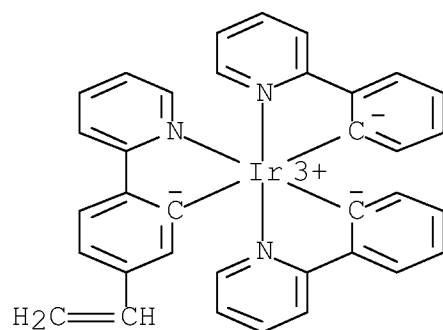
CRN 481694-72-8
 CMF C36 H31 Ir N2 O2
 CCI CCS



RN 857061-54-2 ZCA
 CN Iridium, [5-ethenyl-2-(2-pyridinyl-κN)phenyl-κC]bis[2-(2-pyridinyl-κN)phenyl-κC]-, polymer with (4-ethenylphenyl)bis(2,4,6-trimethylphenyl)borane (9CI) (CA INDEX NAME)

CM 1

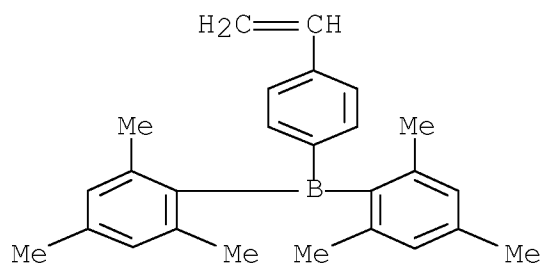
CRN 857061-53-1
 CMF C35 H26 Ir N3
 CCI CCS



CM 2

CRN 856695-21-1

CMF C26 H29 B



RN 857061-55-3 ZCA

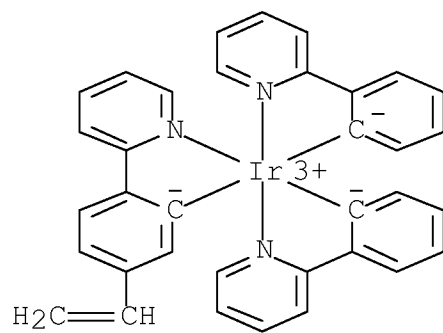
CN Iridium, [5-ethenyl-2-(2-pyridinyl-κN)phenyl-κC]bis[2-(2-pyridinyl-κN)phenyl-κC]-, polymer with (4-ethenyl-2,6-dimethylphenyl)bis(2,4,6-trimethylphenyl)borane (9CI) (CA INDEX NAME)

CM 1

CRN 857061-53-1

CMF C35 H26 Ir N3

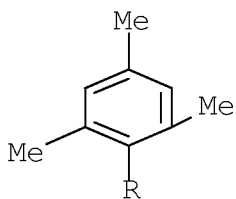
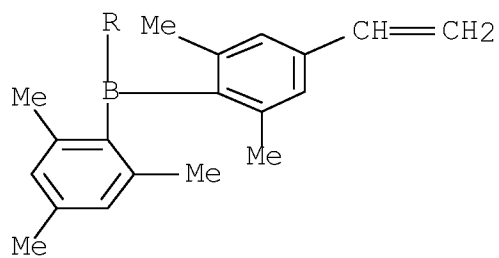
CCI CCS



CM 2

CRN 856695-22-2

CMF C28 H33 B



RN 857061-56-4 ZCA

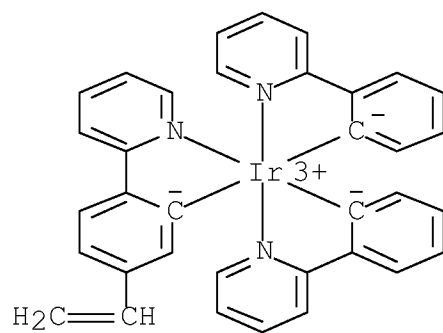
CN Iridium, [5-ethenyl-2-(2-pyridinyl-κN)phenyl-κC]bis[2-(2-pyridinyl-κN)phenyl-κC]-, polymer with (4'-ethenyl-3,5-dimethyl[1,1'-biphenyl]-4-yl)bis(2,4,6-trimethylphenyl)borane (9CI) (CA INDEX NAME)

CM 1

CRN 857061-53-1

CMF C35 H26 Ir N3

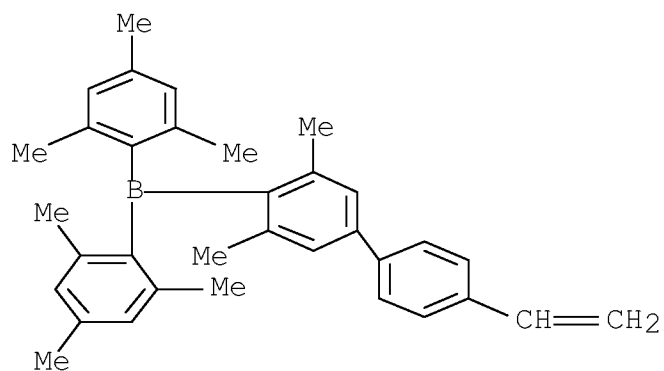
CCI CCS



CM 2

CRN 856695-27-7

CMF C34 H37 B



RN 857061-57-5 ZCA

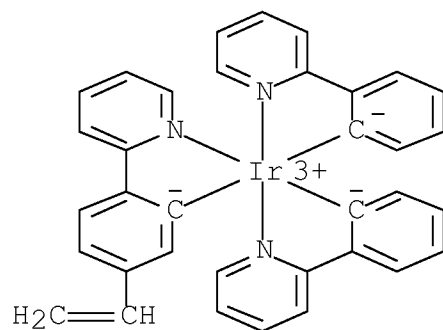
CN Iridium, [5-ethenyl-2-(2-pyridinyl-κN)phenyl-κC]bis[2-(2-pyridinyl-κN)phenyl-κC]-, polymer with bis(3,5-dimethyl[1,1'-biphenyl]-4-yl) (4'-ethenyl-3,5-dimethyl[1,1'-biphenyl]-4-yl)borane (9CI) (CA INDEX NAME)

CM 1

CRN 857061-53-1

CMF C35 H26 Ir N3

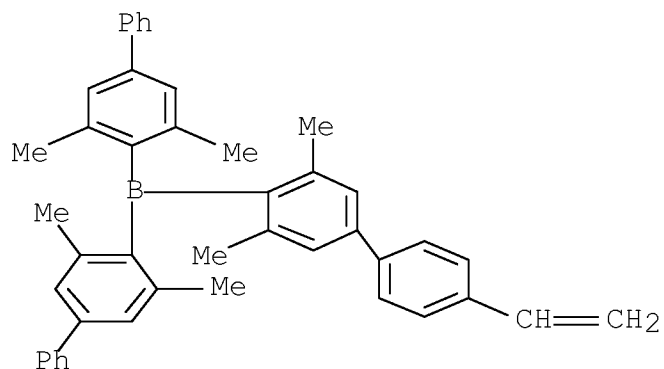
CCI CCS



CM 2

CRN 856695-28-8

CMF C44 H41 B



RN 857061-58-6 ZCA

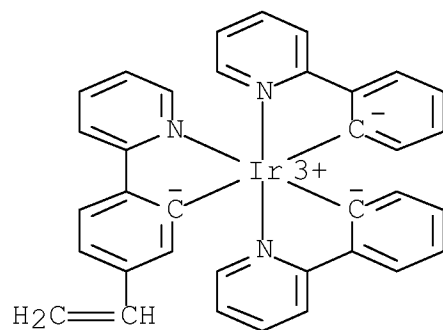
CN Iridium, [5-ethenyl-2-(2-pyridinyl-κN)phenyl-κC]bis[2-(2-pyridinyl-κN)phenyl-κC]-, polymer with bis(3,5-dimethyl[1,1':4',1''-terphenyl]-4-yl)(4'-ethenyl-3,5-dimethyl[1,1'-biphenyl]-4-yl)borane (9CI) (CA INDEX NAME)

CM 1

CRN 857061-53-1

CMF C35 H26 Ir N3

CCI CCS

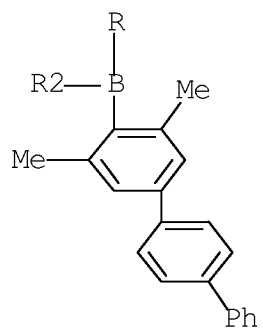


CM 2

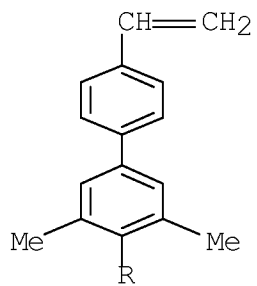
CRN 856695-35-7

CMF C56 H49 B

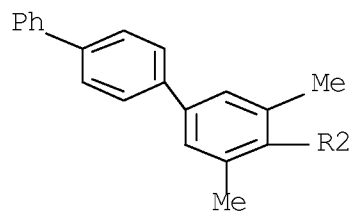
PAGE 1-A



PAGE 2-A



PAGE 3-A



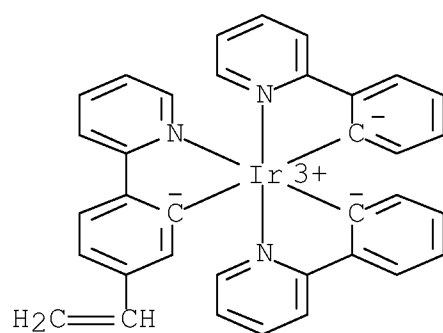
CN Iridium, [5-ethenyl-2-(2-pyridinyl-κN)phenyl-κC]bis[2-(2-pyridinyl-κN)phenyl-κC]-, polymer with N-(4-ethenyl-3-methylphenyl)-3,3'-dimethyl-N,N',N'-tris(3-methylphenyl)[1,1'-biphenyl]-4,4'-diamine and (4-ethenylphenyl)bis(2,4,6-trimethylphenyl)borane (9CI) (CA INDEX NAME)

CM 1

CRN 857061-53-1

CMF C35 H26 Ir N3

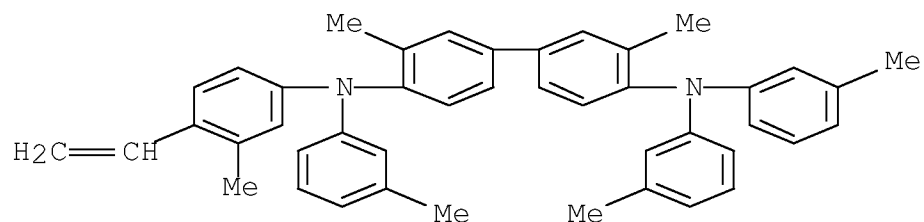
CCI CCS



CM 2

CRN 856695-39-1

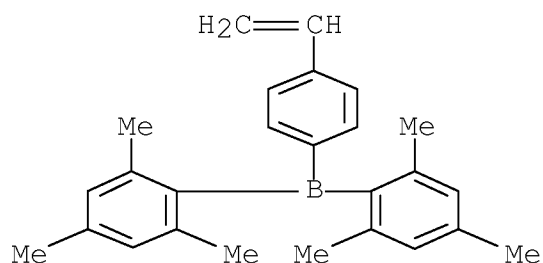
CMF C44 H42 N2



CM 3

CRN 856695-21-1

CMF C26 H29 B



RN 857061-60-0 ZCA

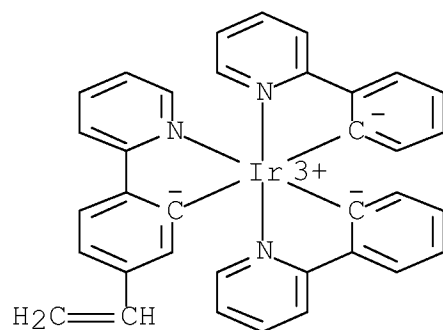
CN Iridium, [5-ethenyl-2-(2-pyridinyl-κN)phenyl-κC]bis[2-(2-pyridinyl-κN)phenyl-κC]-, polymer with (4-ethenyl-2,6-dimethylphenyl)bis(2,4,6-trimethylphenyl)borane and N-(4-ethenyl-3-methylphenyl)-3,3'-dimethyl-N,N',N'-tris(3-methylphenyl)[1,1'-biphenyl]-4,4'-diamine (9CI) (CA INDEX NAME)

CM 1

CRN 857061-53-1

CMF C35 H26 Ir N3

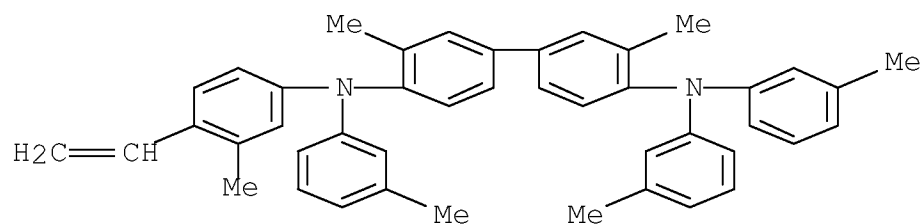
CCI CCS



CM 2

CRN 856695-39-1

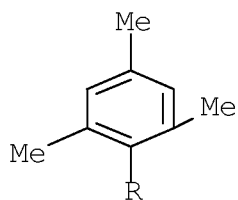
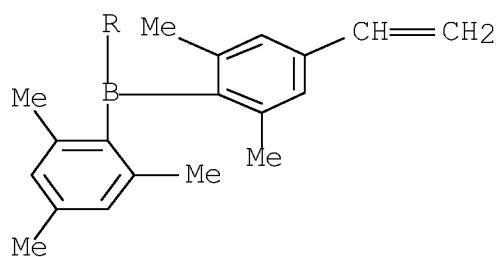
CMF C44 H42 N2



CM 3

CRN 856695-22-2

CMF C28 H33 B



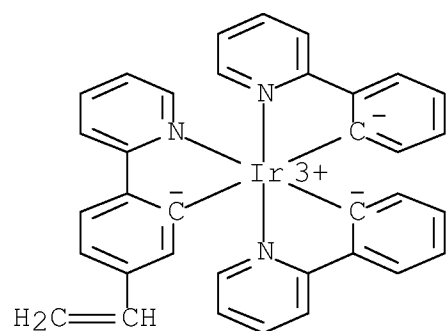
RN 857061-61-1 ZCA

CN Iridium, [5-ethenyl-2-(2-pyridinyl-κN)phenyl-κC]bis[2-(2-pyridinyl-κN)phenyl-κC]-, polymer with (4'-ethenyl-3,5-dimethyl[1,1'-biphenyl]-4-yl)bis(2,4,6-trimethylphenyl)borane and N-(4-ethenyl-3-methylphenyl)-3,3'-dimethyl-N,N',N'-tris(3-methylphenyl)[1,1'-biphenyl]-4,4'-diamine (9CI) (CA INDEX NAME)

CM 1

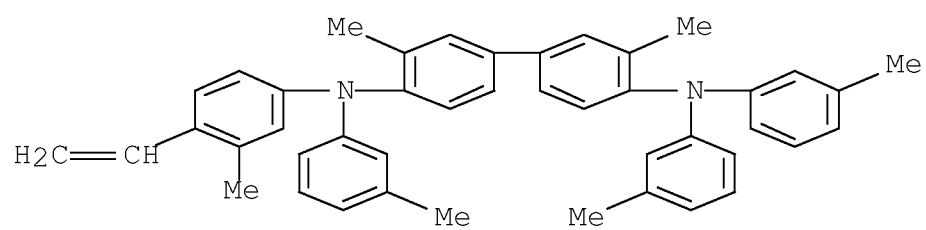
CRN 857061-53-1

CMF C35 H26 Ir N3
 CCI CCS



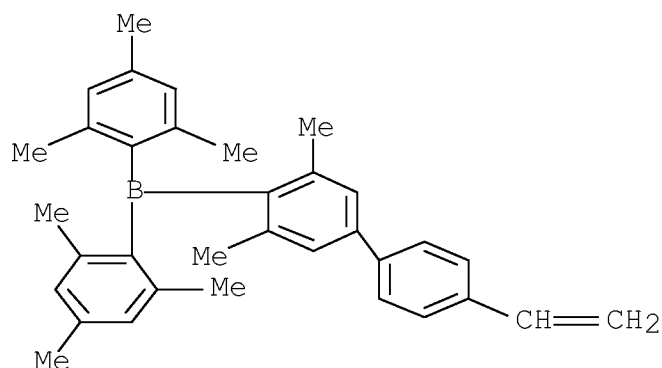
CM 2

CRN 856695-39-1
 CMF C44 H42 N2



CM 3

CRN 856695-27-7
 CMF C34 H37 B



RN 857061-62-2 ZCA

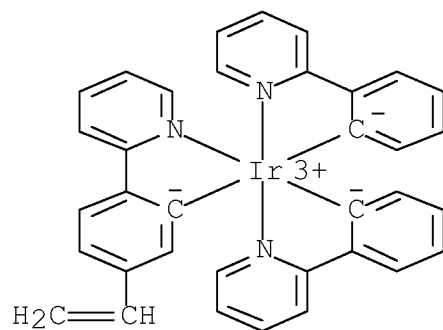
CN Iridium, [5-ethenyl-2-(2-pyridinyl-κN)phenyl-κC]bis[2-(2-pyridinyl-κN)phenyl-κC]-, polymer with bis(3,5-dimethyl[1,1'-biphenyl]-4-yl)(4'-ethenyl-3,5-dimethyl[1,1'-biphenyl]-4-yl)borane and N4-(4-ethenyl-3-methylphenyl)-3,3'-dimethyl-N4,N4',N4'-tris(3-methylphenyl)[1,1'-biphenyl]-4,4'-diamine (CA INDEX NAME)

CM 1

CRN 857061-53-1

CMF C35 H26 Ir N3

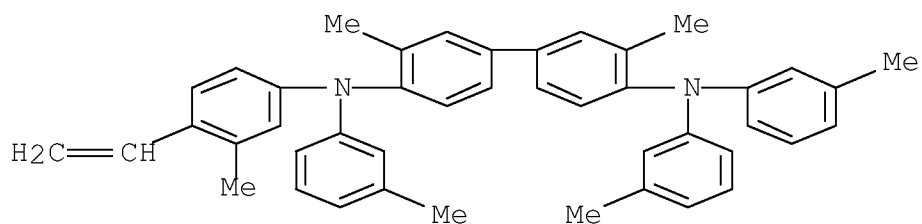
CCI CCS



CM 2

CRN 856695-39-1

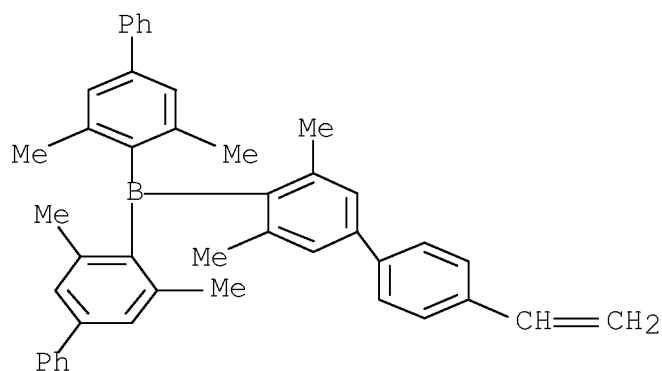
CMF C44 H42 N2



CM 3

CRN 856695-28-8

CMF C44 H41 B



RN 857061-63-3 ZCA

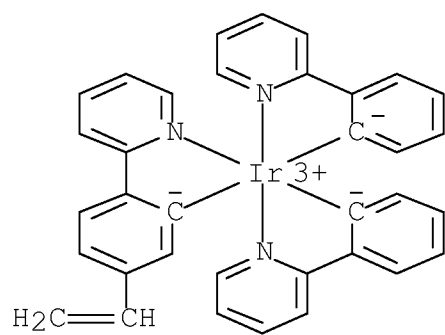
CN Iridium, [5-ethenyl-2-(2-pyridinyl-κN)phenyl-κC]bis[2-(2-pyridinyl-κN)phenyl-κC]-, polymer with bis(3,5-dimethyl[1,1':4',1''-terphenyl]-4-yl)(4'-ethenyl-3,5-dimethyl[1,1'-biphenyl]-4-yl)borane and N-(4-ethenyl-3-methylphenyl)-3,3'-dimethyl-N,N',N'-tris(3-methylphenyl)[1,1'-biphenyl]-4,4'-diamine (9CI) (CA INDEX NAME)

CM 1

CRN 857061-53-1

CMF C35 H26 Ir N3

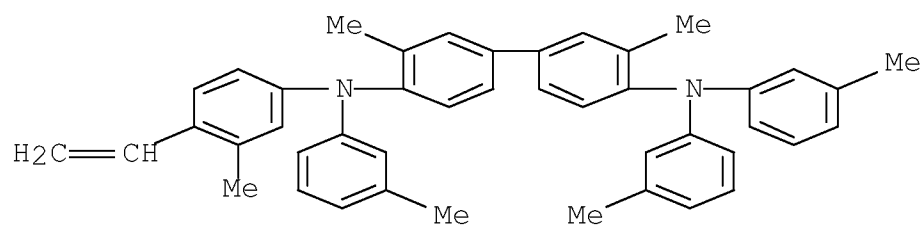
CCI CCS



CM 2

CRN 856695-39-1

CMF C44 H42 N2

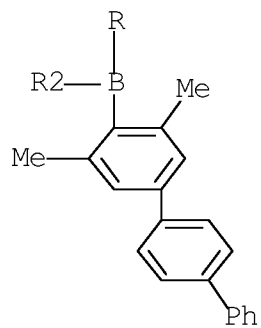


CM 3

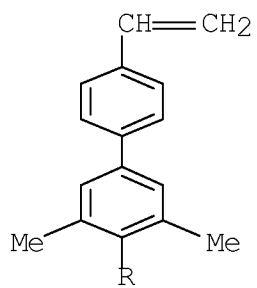
CRN 856695-35-7

CMF C56 H49 B

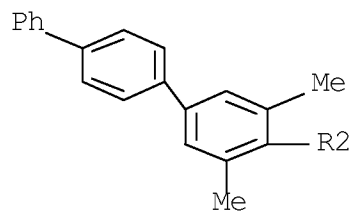
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PAGE 2-A



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ED Entered STN: 29 Jul 2004
 TI Organic electroluminescent device for displays and illumination
 source and its production method
 IN Kita, Hiroshi; Yamada, Taketoshi; Suzurizato, Yoshiyuki; Ueda,
 Noriko
 PA Konica Minolta Holdings Inc., Japan
 SO Jpn. Kokai Tokkyo Koho, 65 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM H05B033-14
 ICS C08F212-00; C08F220-34; C08F226-12; C08F293-00; C08G081-00;
 C08G085-00; C09K011-06; H05B033-10
 CC 73-11 (Optical, Electron, and Mass Spectroscopy and Other Related
 Properties)
 Section cross-reference(s): 37, 74

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI JP 2004185967	A	20040702	JP 2002-351157	200212 03

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PRAI JP 2002-351157 20021203 <--

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
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JP 2004185967	ICM	H05B033-14
	ICS	C08F212-00; C08F220-34; C08F226-12; C08F293-00; C08G081-00; C08G085-00; C09K011-06; H05B033-10
	IPCI	H05B0033-14 [ICM,7]; C08F0212-00 [ICS,7]; C08F0220-34 [ICS,7]; C08F0220-00 [ICS,7,C*]; C08F0226-12 [ICS,7]; C08F0226-00 [ICS,7,C*]; C08F0293-00 [ICS,7]; C08G0081-00 [ICS,7]; C08G0085-00 [ICS,7]; C09K0011-06 [ICS,7]; H05B0033-10 [ICS,7]
	IPCR	C08F0212-00 [I,A]; C08F0212-00 [I,C*]; C08F0220-00 [I,C*]; C08F0220-34 [I,A]; C08F0226-00 [I,C*]; C08F0226-12 [I,A]; C08F0293-00 [I,A]; C08F0293-00 [I,C*]; C08G0081-00 [I,A]; C08G0081-00 [I,C*]; C08G0085-00 [I,A]; C08G0085-00 [I,C*]; C09K0011-06 [I,A]; C09K0011-06 [I,C*]; H05B0033-10 [I,A]; H05B0033-10 [I,C*]; H05B0033-14 [I,A]; H05B0033-14 [I,C*]
	FTERM	3K007/AB02; 3K007/AB03; 3K007/AB04; 3K007/AB11;

3K007/AB18; 3K007/BA06; 3K007/DB03; 3K007/FA01;
 4J026/HA08; 4J026/HA11; 4J026/HA19; 4J026/HB08;
 4J026/HB11; 4J026/HB19; 4J026/HC47; 4J031/AA49;
 4J031/AB04; 4J031/AC03; 4J031/AD01; 4J031/AD03;
 4J031/AF21; 4J031/AF23; 4J031/BA06; 4J031/BA11;
 4J031/BA15; 4J031/BA17; 4J031/BB01; 4J031/BB02;
 4J031/BB03; 4J031/BB04; 4J031/BB05; 4J031/BC19;
 4J031/BD21; 4J031/BD23; 4J031/CD28; 4J100/AB07P;
 4J100/AB07Q; 4J100/AB07R; 4J100/AB15Q;
 4J100/AB15R; 4J100/AL08P; 4J100/AL08Q;
 4J100/AL08R; 4J100/AL65Q; 4J100/AQ26P;
 4J100/BA01R; 4J100/BA27Q; 4J100/BA71R;
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 4J100/BC42P; 4J100/BC43P; 4J100/BC43Q;
 4J100/BC43R; 4J100/BC44P; 4J100/BC44Q;
 4J100/BC48P; 4J100/BC49Q; 4J100/BC49R;
 4J100/BC65P; 4J100/BC73Q; 4J100/BC73R;
 4J100/BC75Q; 4J100/BC75R; 4J100/BC79Q;
 4J100/CA04; 4J100/CA05; 4J100/DA55; 4J100/DA61;
 4J100/JA32; 4J100/JA43

AB The invention relates to an org. electroluminescent device comprising a light-emitting layer contg. a phosphorescent dopant and a multifunctioning polymer, wherein, at least, the two of functional mol. units selected from a luminescent host unit, a hole transporting unit, and an electron transporting unit constitute the multifunctioning polymer.

ST org electroluminescent device phosphoresce multifunction polymer

IT Electroluminescent devices

Light sources

Optical imaging devices

Phosphorescent substances

(org. electroluminescent device having phosphorescent dopant and multifunctioning polymer in light emitting layer)

IT Polyesters, uses

Polyethers, uses

Polyurethanes, uses

(org. electroluminescent device having phosphorescent dopant and multifunctioning polymer in light emitting layer)

IT 714976-00-8 714976-02-0 714976-05-3 714976-08-6 714976-11-1

714976-13-3 714976-16-6 714976-18-8 714976-21-3 714976-25-7

714976-27-9 714976-29-1 714976-31-5 ~~714976-33-7~~

714976-35-9 ~~714976-36-0~~ 714976-38-2

(org. electroluminescent device having phosphorescent dopant and multifunctioning polymer in light emitting layer)

IT 94928-86-6 344796-22-1 376367-93-0

(org. electroluminescent device having phosphorescent dopant and

multifunctioning polymer in light emitting layer)
IT 714976-33-7 714976-36-0
(org. electroluminescent device having phosphorescent dopant and
multifunctioning polymer in light emitting layer)

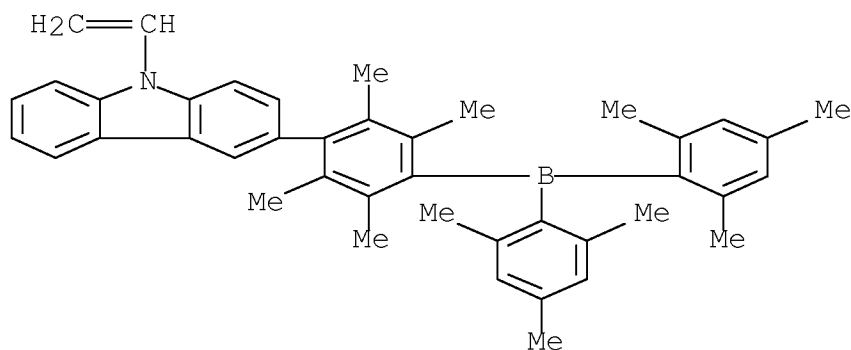
RN 714976-33-7 ZCA

CN 9H-Carbazole, 3-[4-[bis(2,4,6-trimethylphenyl)boryl]-2,3,5,6-
tetramethylphenyl]-9-ethenyl-, polymer with 3,5-bis(2,5-
dimethylphenyl)-4-(4-ethenylphenyl)-4H-1,2,4-triazole (9CI) (CA
INDEX NAME)

CM 1

CRN 714976-32-6

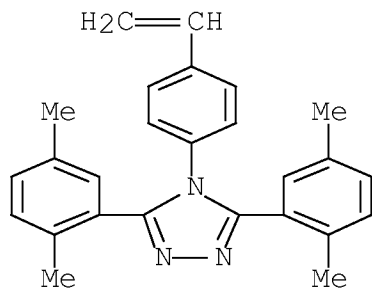
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CM 2

CRN 714976-14-4

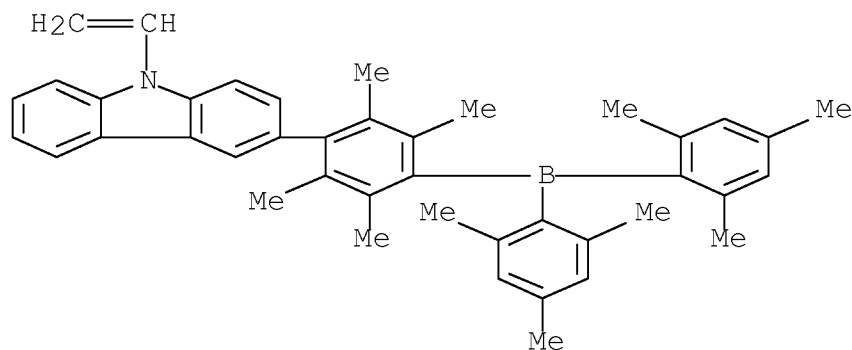
CMF C26 H25 N3



RN 714976-36-0 ZCA
 CN Benzenamine, 4,4'-[[4-[(4-ethenylphenyl)phenylamino]-2,5-dimethylphenyl]methylene]bis[2,5-dimethyl-N,N-diphenyl-, polymer with 3,5-bis(2,5-dimethylphenyl)-4-(4-ethenylphenyl)-4H-1,2,4-triazole and 3-[4-[bis(2,4,6-trimethylphenyl)boryl]-2,3,5,6-tetramethylphenyl]-9-ethenyl-9H-carbazole (9CI) (CA INDEX NAME)

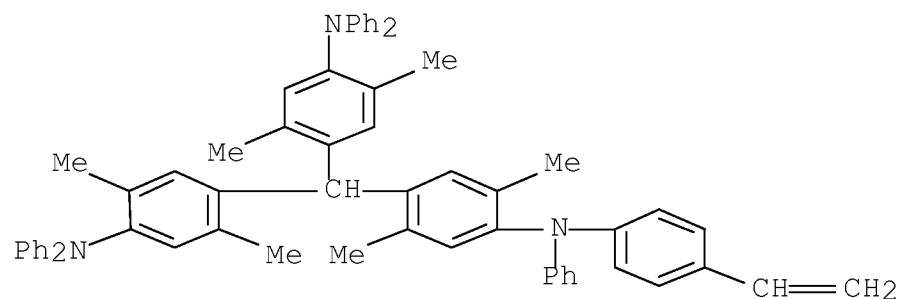
CM 1

CRN 714976-32-6
 CMF C42 H44 B N



CM 2

CRN 714976-20-2
 CMF C63 H57 N3



CM 3

CRN 714976-14-4
CMF C26 H25 N3

